

Masoud Hassanzadeh Makoui

Professor Assistant of Immunology

Profile

I am a Doctor of Veterinary Medicine and PhD in Immunology with over 10 years of academic, clinical, and translational research experience. As an Assistant Professor of Immunology at Zanjan University of Medical Sciences, I teach diverse student groups while integrating rigorous, research-driven approaches. I serve as Technical Manager of an advanced Immunology, Serology, and Molecular Diagnostics Laboratory and own a private research lab focused on innovative diagnostics and therapeutics. I contribute to research governance as a member of the Animal Research Ethics Committee and the Cancer Gene Therapy Research Center, and I am also the Head of the Student Research Committee at Zanjan University of Medical Sciences. My areas of expertise include monoclonal antibody development and cancer immunology.

Education

- Doctorate Degree in Veterinary Medicine
 Tabriz
- Ph.D. in Medical Immunology
 Tehran University of Medical Sciences

Employment History

- Assistant Professor of Immunology
 Zanjan University of Medical Sciences
- Technical Manager of Immunology, Serology and Molecular Diagnostics Laboratory
 Zanjan University of Medical Sciences
- The Head of the Student Research Committee
 Zanjan University of Medical Sciences

% Projects

- Design and development of a multi-epitope anti-cancer vaccine based on CEA, KRAS, and CD133 antigens, and evaluation of its efficacy alone and in combination with anti-PD-1 inhibitory antibodies in colorectal cancer
 Zanjan University of Medical Sciences
- Investigation of the prevalence and antibody titers of HCV, HBsAb, and HIV in laboratory samples of patients referring to Mousavi Hospital in Zanjan during 2021–2025: A retrospective study Zanjan University of Medical Sciences

Details

Email: dr.m.makoui@zums.ac.ir Address: Immunology Department ,Zanjan University of Medical Scieneces, Zanjan, Iran.

Skills

Inventor of four Locally patented Monoclonal Antibodies

Monoclonal Antibody Production

Recombinant Protein Production

Immunology Related Techniques

Systematic Review and Meta-Analysis

Active Reviewer for Meta-Analysis studies in Springer Nature Publication

Language

English ★★★★☆

Turkish ★★★★☆

Persian ****

Azerbaijani Mother tongue

German A1

- Investigation of electrolyte changes in serum and lavage fluid of allergic asthmatic mice and their relationship with lung immunopathological changes. Zanjan University of Medical Sciences IR.ZUMS.AEC.1404.004
- Production of monoclonal antibodies against tumor markers associated with colorectal cancer and determination of their expression pattern in Iranian patients with colorectal cancer Tehran University of Medical Sciences IR.TUMS.AEC.1402.193
- Production of specific monoclonal antibodies against tumor markers GATA3, SOX10, CK5/6 and HER2 associated with breast cancer Tehran University of Medical Sciences IR.TUMS.AEC.1403.108
- Production of monoclonal antibodies against tumor markers P53, Ki67, and estrogen and progesterone receptors and their application for tumor cell classification in Iranian patients with breast cancer Tehran University of Medical Sciences IR.TUMS.SPH.REC.1399.119

Researches

- Effect of peroxybenzoic acid and hydroxybenzoic acid on allergic asthma **BMC Biomedical Engineering**
 - 2025
- Development and evaluation of a novel E7 multiepitopic vaccine for human papillomavirus type 16: design, expression, purification, and immunological characterization **BMC Infectious Diseases** 2025
- The Role of Mast Cells in the Development and **Advancement of Endometriosis** American Journal of Reproductive Immunology 2025
- Effect of Peroxybenzoic acid and Hydroxybenzoic acid on allergic asthma Accepted but not published in BMC Biomedical Engineering 2025
- Investigating the Co-Expression Rate of HER2 and **HER3 Biomarkers in Cancer Patients: A Systematic Review and Meta-Analysis** Asian Pacific Journal of Cancer Prevention 2024
- Effects of bazedoxifene on endometriosis in experimental animal models: A systematic review and meta-analysis Turkish Journal of Obstetrics and Gynecology 2024
- Individual effects of GSTM1 and GSTT1 polymorphisms on the risk of polycystic ovarian syndrome: A systematic review and meta-analysis Turkish Journal of Obstetrics and Gynecology

 State of the art in CAR-based therapy: In vivo CAR production as a revolution in cell-based cancer treatment

Cellular Oncology

2025

- Hypertension, Lifestyle Factors, and Breast Cancer **Outcomes: A Decade-Long Retrospective Cohort** Study
 - Journal of Advances in Medical and Biomedical Research 2025
- Unveiling the connection: asthma and endometriosis - a comprehensive systematic review and metaanalysis Allergologia et immunopathologia
- Effect of HER3 Overexpression on Survival **Outcomes in Pancreatic Cancer Patients: A** Systematic Review and Meta-Analysis Accepted but not published in Asian Pacific Journal of Cancer Prevention

2025

2025

- Correlation between the existence of serum. autoantibodies and the risk of endometriosis: A systematic review and meta-analysis Turkish Journal of Obstetrics and Gynecology
- Clinico-pathological and prognostic significance of a combination of tumor biomarkers in iranian patients with breast cancer

Clinical Breast Cancer

2024

 Cross-Reactivity of HBe Antigen-Specific Polyclonal Antibody with HBc Antigen Viral immunology

2023

2024

 Novel Monoclonal Antibodies Specific for Human Ki67 and P53 Tumor Markers in Breast Cancer Tissue Samples
 Iranian Journal of Immunology

2023

 Generation and Characterization of Novel Diagnostic Mouse Monoclonal Antibodies Against Human Estrogen Receptor Alpha and Progesterone Receptor Asian Pacific Journal of Cancer Prevention 2022

 Effects of Vitamin D on Left Ventricular Ejection Fraction in Patients with Systolic Heart Failure: A Double-Blind Randomized Clinical Trial International Journal of Endocrinology and Metabolism 2020

 Association between MTHFR gene polymorphism and susceptibility to autism spectrum disorders: systematic review and meta-analysis
 Research in Autism Spectrum Disorders
 2020

 Vitamin D receptor gene polymorphism and susceptibility to asthma: meta-analysis based on 17 case-control studies
 Annals of Allergy, Asthma & Immunology 2020

 Characterization of Aeromonas hydrophila from Perch (Perca fluviatilis) of Aras Dam, Iran Journal of Applied Science and Agriculture 2014

 Evaluation of antibacterial properties of edible oils and extracts of a native plant, Ziziphora clinopodioides (mountains' Kakoty), on bacteria isolated from urinary tract
 Life Science Journal

2013

 Production and purification of recombinant HBcAg of hepatitis B virus and investigation of its structural and functional characteristics
 Iranian Journal of Infectious Disease and Tropical Medicine

Interleukin-10 Gene Promoter Polymorphisms and Susceptibility to Asthma: Systematic Review and Meta-analysis
Biochemical Genetics

2021

2023

 Vitamin D receptor gene polymorphisms and the risk of the type 1 diabetes: a meta-regression and updated meta-analysis
 BMC Endocrine Disorders

2020

 Vitamin D receptor gene polymorphisms and the risk of the type 1 diabetes: a meta-analysis based on 40 case-control studies
 Europe PMC

2020

 Efficacy of different live Newcastle disease vaccines in broiler farms
 European Journal of Zoological Research
 2014

 Effect of hormones PMSG, melatonin and CIDR on induction of estrus and reproductive performance of the Shal ewes in off-season reproduction International Journal of Biosciences

2014

 Evaluation of contamination of cattle's raw milk to Johne's disease in farms of Kaleybar region
 Life Science Journal

2013